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(54) Title of the Invention: Screen display device

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## SPECIFICATION

### Title of the Invention

Screen display device

### Scope of Claim

A screen display device for displaying on a single screen parameter input fields for each of a plurality of parameters to be transferred to an application program, comprising:

screen information storage means for storing, for each above screen, the above parameter input fields, parameter input screens configured from a parameter explaining region for displaying explanatory information of a single parameter, and the above explanatory information;

parameter position notification means for notifying relative positions of the above parameter input fields in the input wait state; and

screen information display means for, each time the designated above parameter input screen is displayed and the above notification is performed, reading the above explanatory information from above screen information storage means and displaying it in the above displayed parameter explaining region.

### Detailed Description of the Invention

#### (Field of Industrial Utilization)

The present invention relates to a screen display

device, and more particularly to a screen display device for displaying on a single screen parameter input fields for each of a plurality of parameters to be transferred to an application program.

(Prior Art)

Because conventional screen display devices of this type display an unaltered defined screen, the display of parameter explaining information is dependent on the method by which the screen is defined. That is to say, if a screen is defined as not comprising a parameter explaining range a screen configured from only parameter input fields and lacking the explanatory information thereof will be displayed, while if explanatory information for specific parameters is defined, a screen configured from parameter input fields and defined explanatory information will be displayed.

(Problems to be Solved by the Invention)

There are drawbacks inherent to conventional devices like the one described above in that, because the display of explanatory information of a parameter is determined at a defined point in time on a screen, no parameter explaining information will be displayed by the defined contents which serves to inconvenience parameter input and, when the number of parameter input fields that should display the explanatory information is increased in order to obviate this inconvenience, the screen becomes complicated and difficult to look at which, accordingly, impedes the operation thereof.

An additional drawback is that it is difficult to fit all of the parameter input fields and parameter explaining information on each screen and, as a result, the screen control and operation for the transfer thereof to a plurality of screens is difficult.

(Means to Solve the Problems)

The device of the present invention is characterized in that it comprises:

screen information storage means for storing, for each above screen, the above parameter input fields, parameter input screens configured from a parameter explaining region for displaying explanatory information of a single parameter, and the above explanatory information;

parameter position notification means for notifying relative positions of the above parameter input fields in the input wait state; and

screen information display means for, each time the designated above parameter input screen is displayed and the above notification is performed, reading the above explanatory information from above screen information storage means and displaying it in the above displayed parameter explaining region.

(Embodiment)

The present invention will be described with reference to the drawings.

Fig. 1 is a block diagram showing one embodiment of the

present invention.

Referring to Fig. 1, the present embodiment is configured from screen information storage means 1, screen information display means 2, parameter input control means 3, input device 4 and output device 5.

Screen information storage means 1 stores for each screen a plurality of parameter input fields, parameter input screens configured from a parameter explaining region for displaying explanatory information of single parameters, and explanatory information of each parameter.

Screen information display means 2 reads a designated parameter input screen from screen information storage means 1 in response to a signal from parameter input control means 3 and displays this in the output device 5, and then each time the notification described below is received from parameter input control means 3, it reads correspondent explanatory information from screen information storage means 1 and displays this in the displayed parameter explaining region and, in addition, when a parameter input from the input device 4 is received by way of parameter input control means 3, it displays this in a specified parameter input field of the displayed parameter input screen.

Parameter input control means 3 relays the designated parameter input screen or parameter from the input device 4 to screen information display means 2 and, in response to the designation from the input device 4 when a parameter is

input, notifies screen information display means 2 of the relative position of the parameter input field for which parameter input is being awaited.

The input device 4 is a keyboard and the output device 5 is a CRT.

Next, referring to Fig. 1, the operation of the embodiment based on Figs. 2 to 4 will be described.

Fig. 2 shows one example of a parameter input screen configured from 10 parameter input fields F1 to F10 and a parameter explaining region DF and, in addition, Fig. 3 shows the correlation between the parameter input fields F1 to F10 of the parameter input screen and the parameter explaining information using parameter relative numbers. The parameter input screen and parameter explaining information for each screen are stored in advance in screen information storage means 1.

The parameter explaining information is managed using parameter numbers drawn from the parameter relative positions, and when a parameter relative position is notified by parameter input control means 3 when a parameter is input, it is read from screen information storage means 1 and displayed in the parameter explaining region DF of the output device 5 by screen information display means 2 shown in Fig. 2.

Fig. 4 represents a specific example of screen transition in the present embodiment: (A) shows a screen when

input of a second parameter input field F2 is awaited, and (B) shows a screen when a transition in processing occurs and input of a third parameter input field F3 is awaited. In this way, transition of the displayed content of the parameter explaining region DF in (A) and (B) occurs in accordance with the corresponding parameters input at that time.

(Effect of the Invention)

As is described above, because the parameter explaining information necessary for parameter input can be displayed in a small range within the same parameter input screen based on the provision of a parameter explaining range in a screen and, in addition, the defining of parameter explaining information as screen information and, when a parameter is input, the display of only the explanatory information of the parameter input fields in the state awaiting parameter input are displayed, the effect of the present invention is to enable the provision of a screen display device in which the parameter input is expedient and in which the screen is easy to look at and, accordingly, in which the operability during parameter input is improved.

#### Brief Description of the Drawings

Fig. 1 shows one embodiment of the present invention; Figs. 2, 3 and 4 are drawings for explaining the operation of this embodiment.

1 Screen information storage means, 2 Screen information display means, 3 Parameter input control means, 4 Input

device, 5 Output device, DF Parameter explaining region, F1 to F10 Parameter input fields

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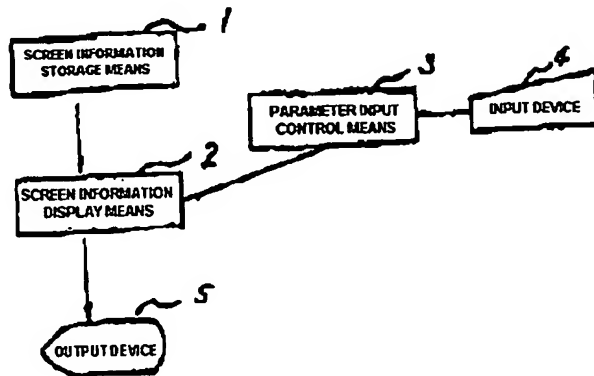


FIG. 1

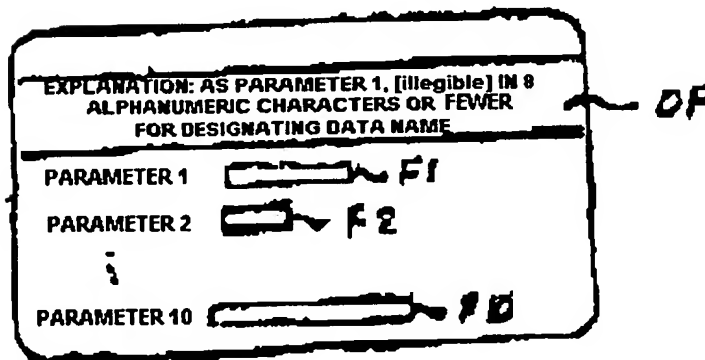


FIG. 2



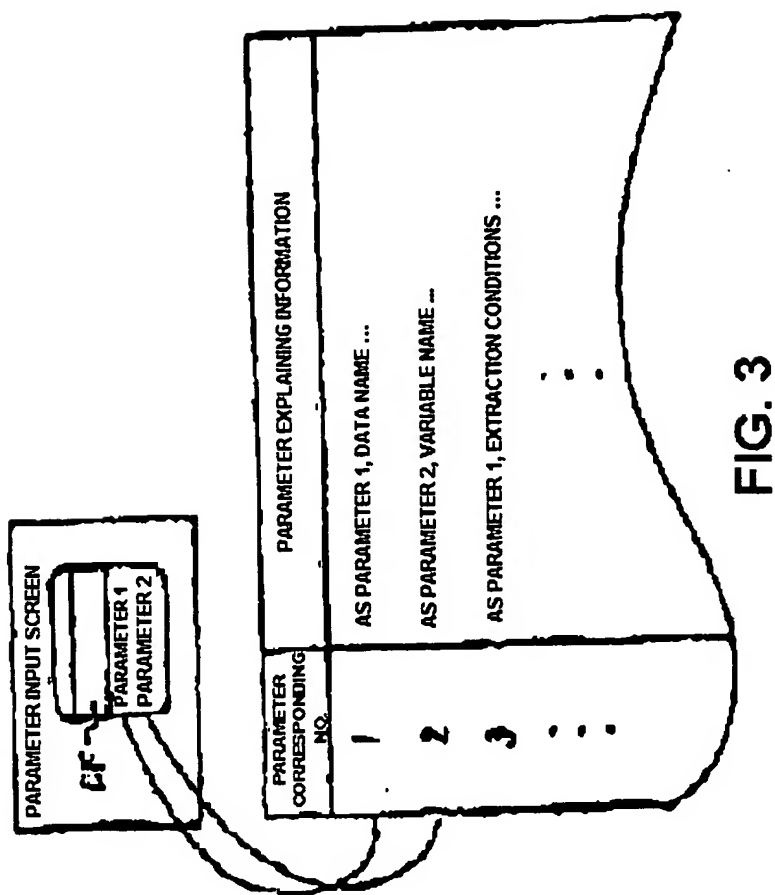


FIG. 3

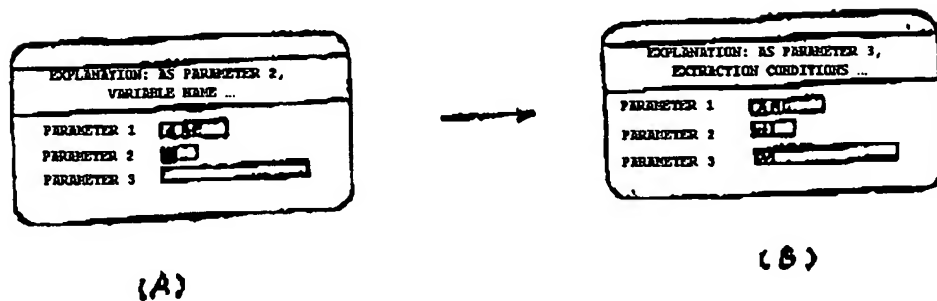


FIG. 4